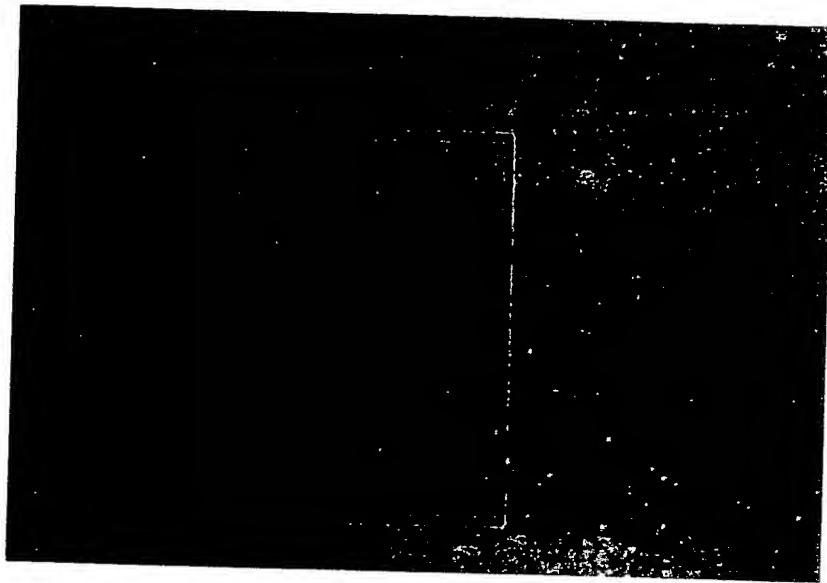


Figure 1



Before treatment (day 0)



After treatment (day 2)

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AVAILABLE COPY

Figure 2A

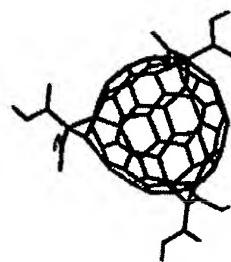
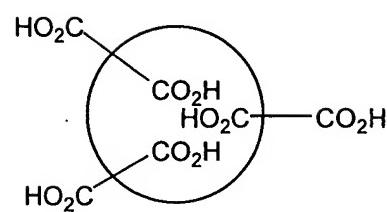
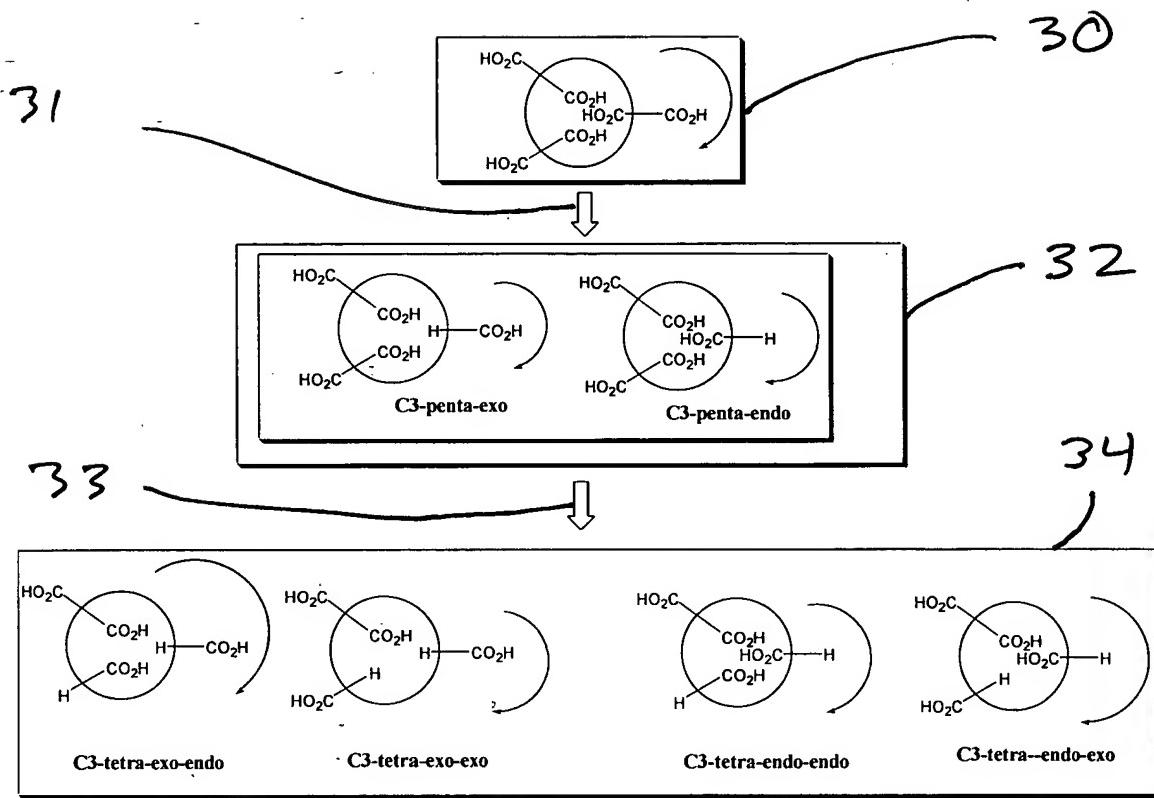


Figure 2B



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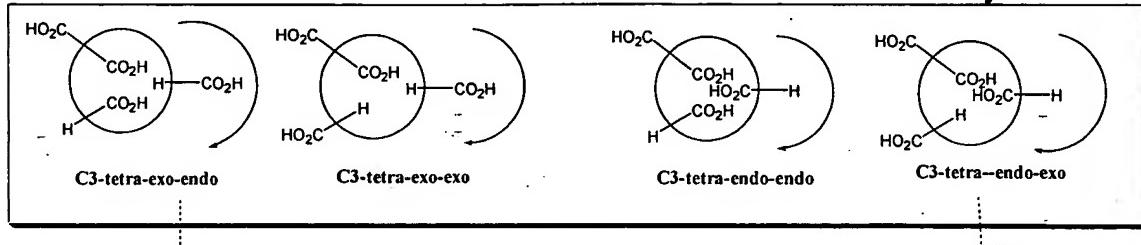
Figure 3



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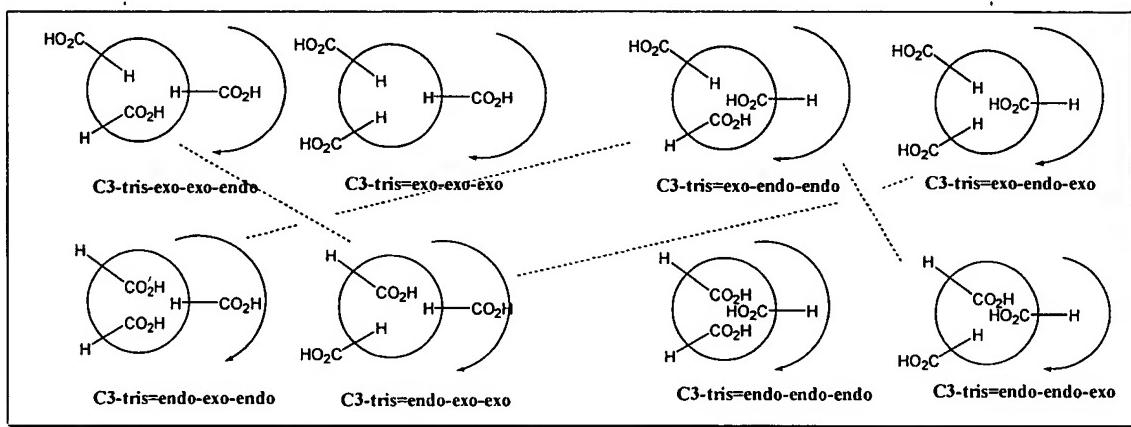
Figure 4

34



41

43



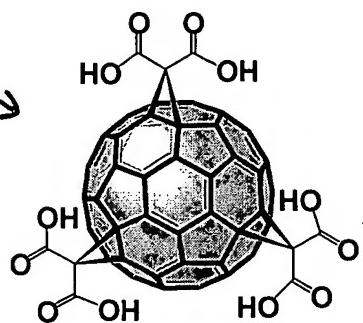
45

42

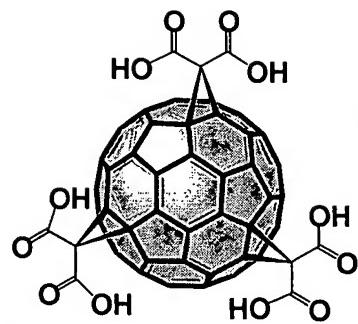
Figure 5

C3 is Chiral - two mirror images

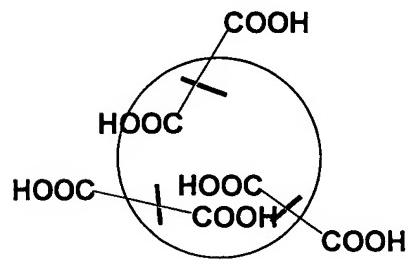
50a



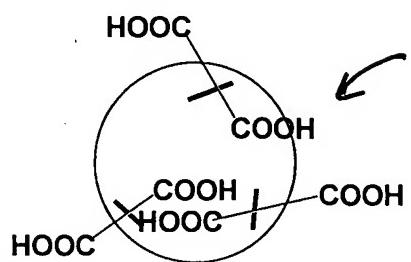
50b



52a

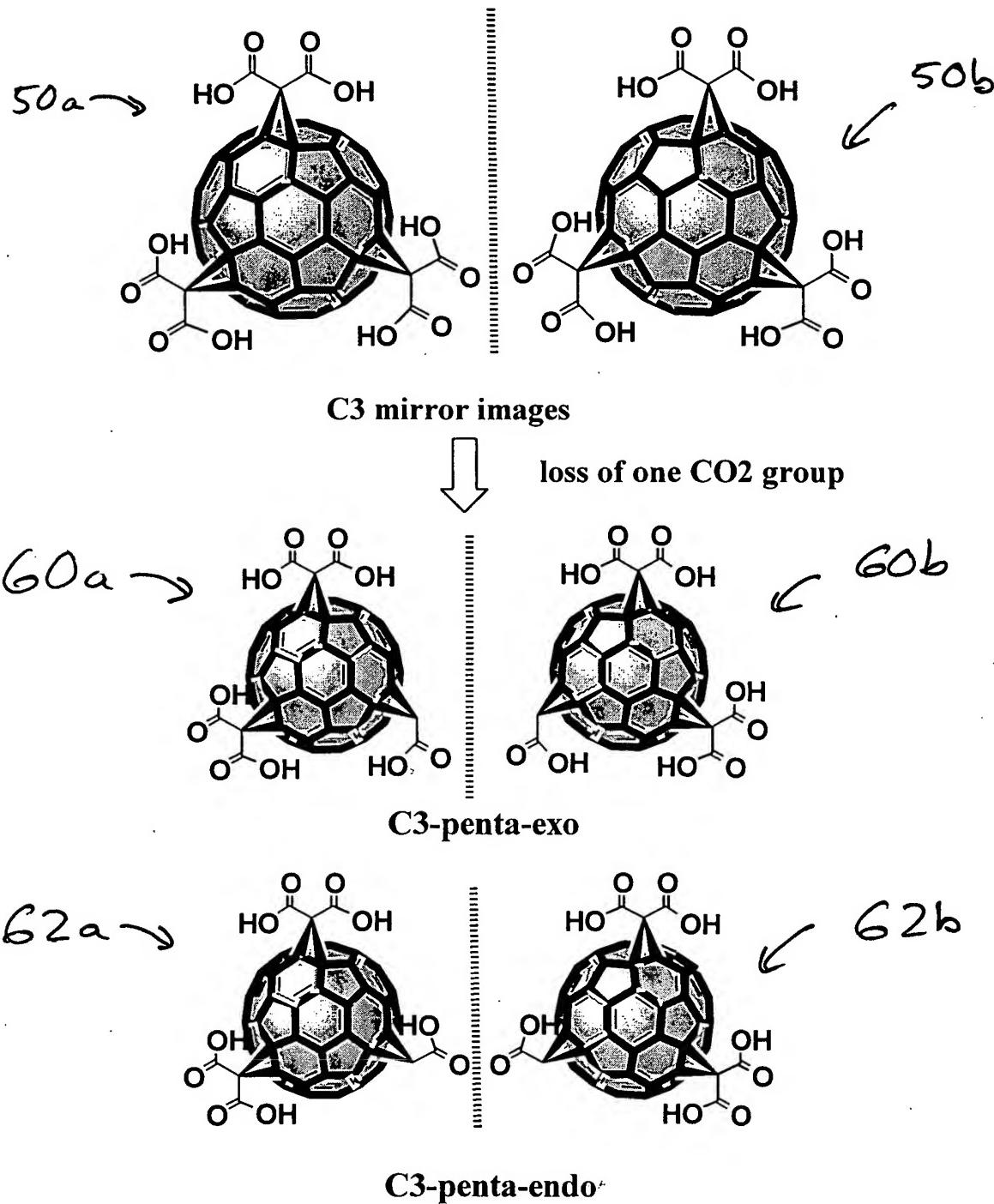


52b



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Figure 6



BEST AVAILABLE COPY

Figure 7

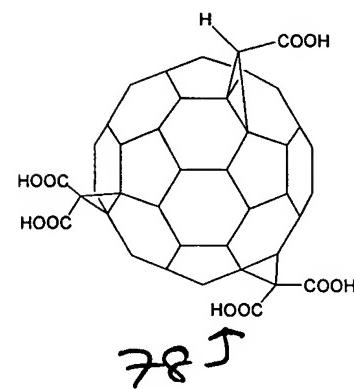
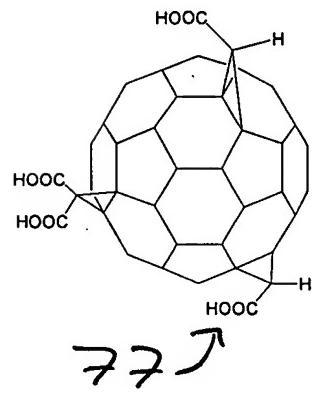
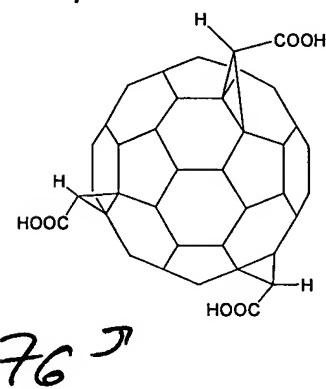
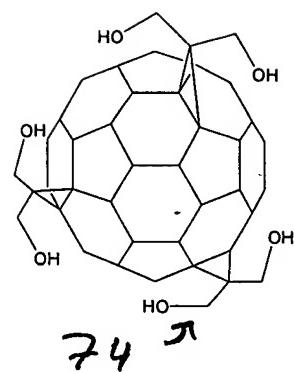
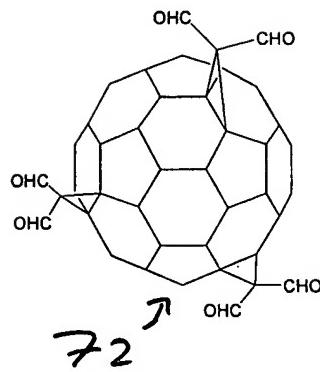
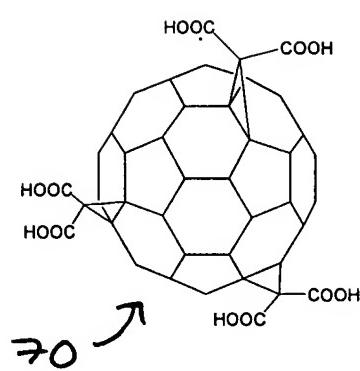


Figure 8A

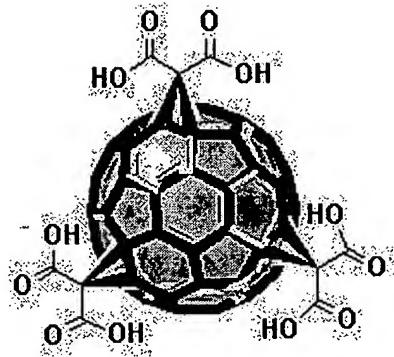
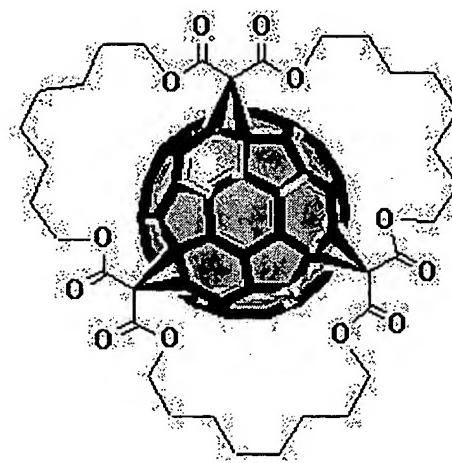


Figure 8B



BEST AVAILABLE COPY

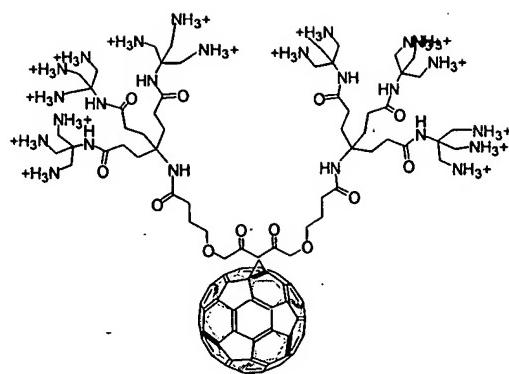


Figure 9A

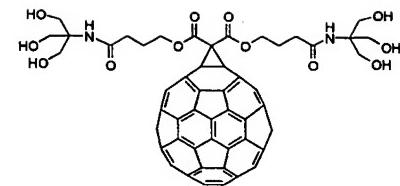


Figure 9B

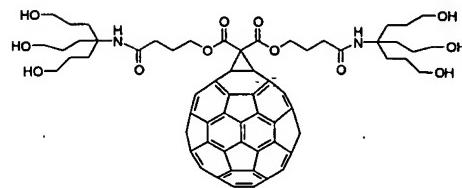


Figure 9C

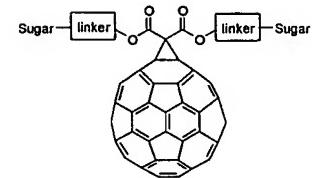


Figure 9D

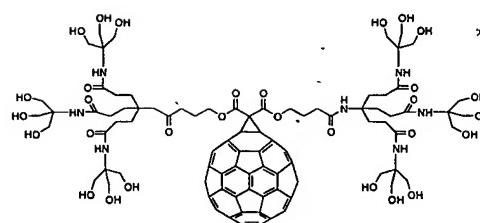


Figure 9E

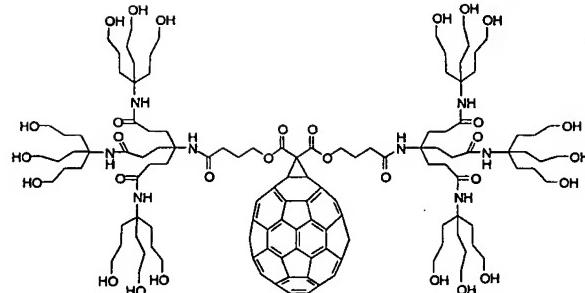


Figure 9F

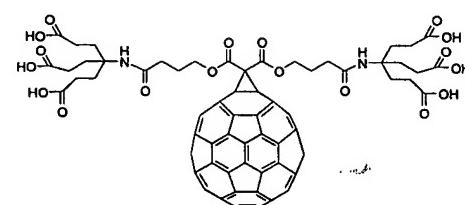


Figure 9G

Figure 10

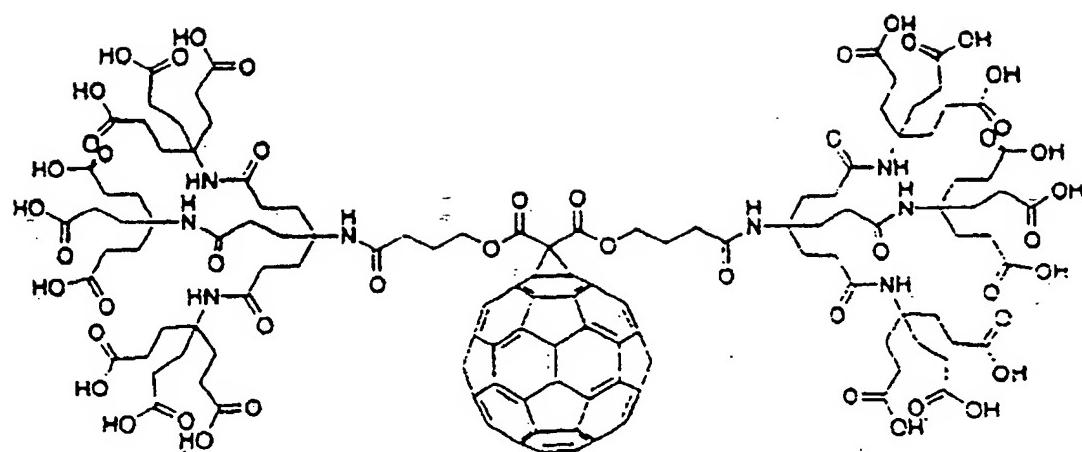


Figure 11A

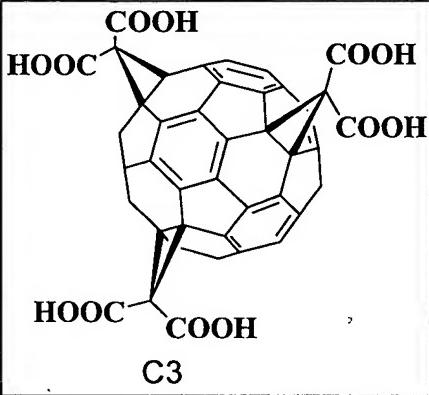
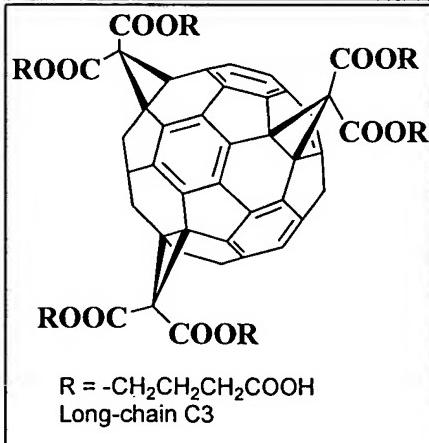
Compound	Ref. No.	IC_{50} (μM)
Trolox (Comparative)	110	440
 C3 (Comparative)	111	174
 $R = -CH_2CH_2CH_2COOH$ Long-chain C3	1201	42

Figure 11B

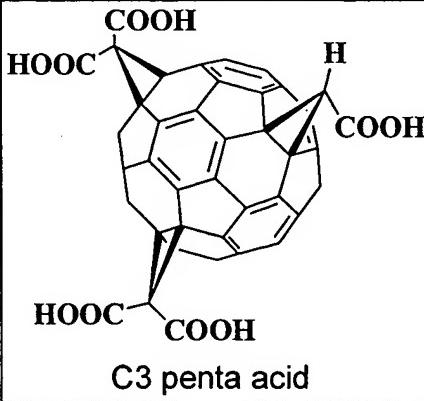
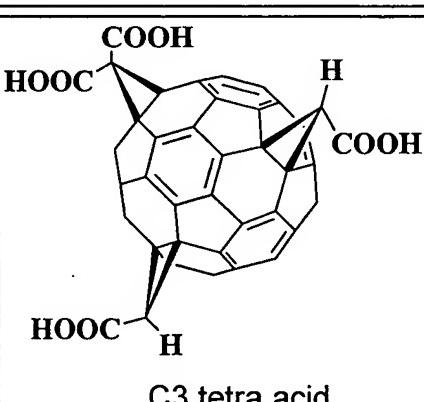
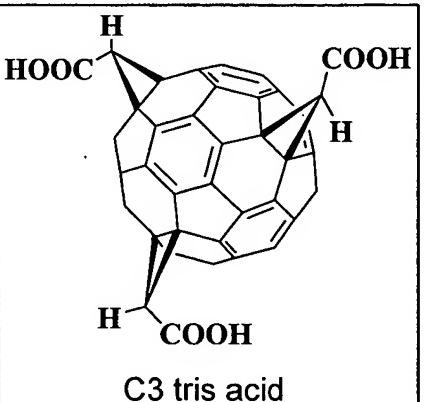
 <p>C3 penta acid</p>	1202	62
 <p>C3 tetra acid</p>	1203	48
 <p>C3 tris acid</p>	1204	44

Figure 11C

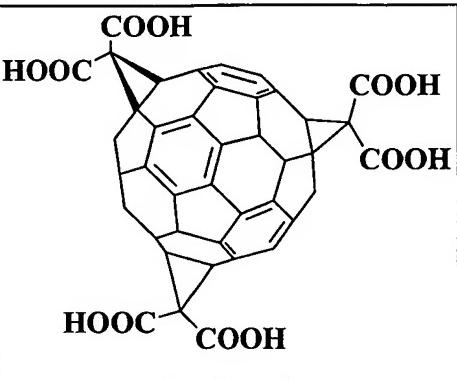
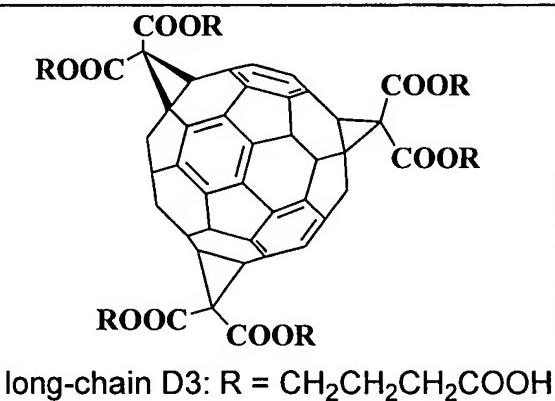
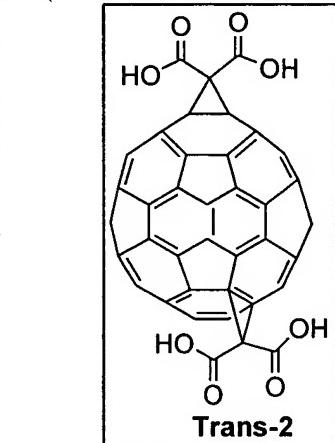
 <p>D3: R = H (Comparative)</p>	112	965
 <p>long-chain D3: R = $\text{CH}_2\text{CH}_2\text{CH}_2\text{COOH}$</p>	1205	264
 <p>Trans-2</p>	1206	90

Figure 11D

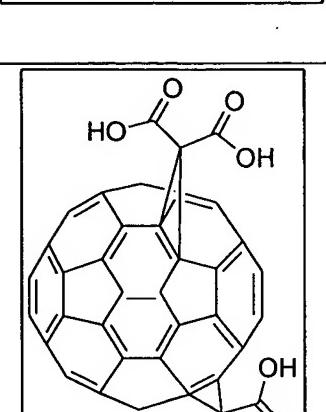
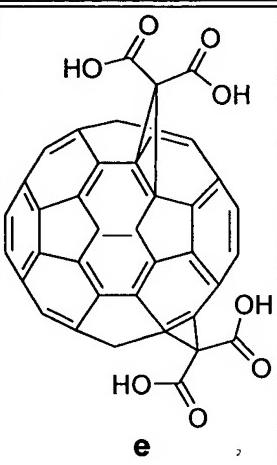
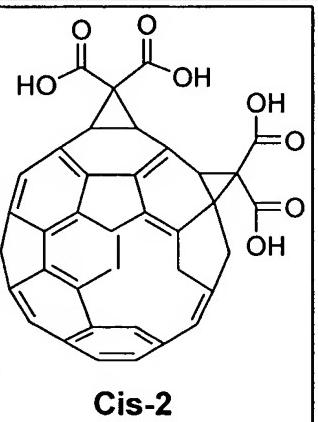
 <p>trans-3</p>	1207	55
 <p>e</p>	1208	32
 <p>Cis-2</p>	1209	23

Figure 11E

<p>C70 bis: R = H</p>	1210	22
<p>long-chain C70 bis: R = COOH</p>	1211	11
<p>(Comparative)</p>	113	102

Figure 11F

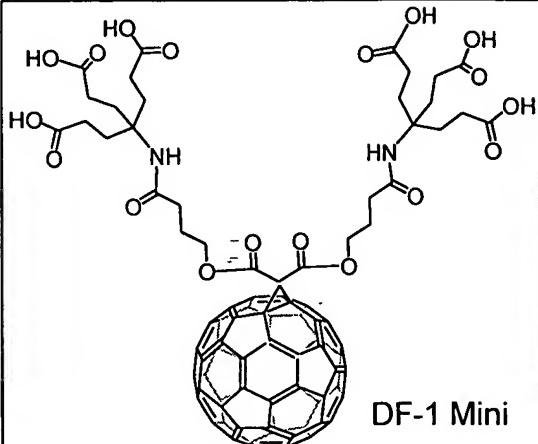
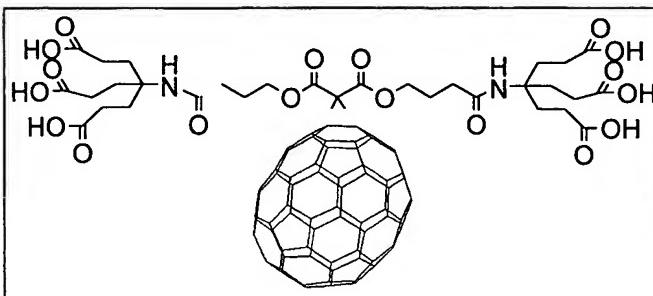
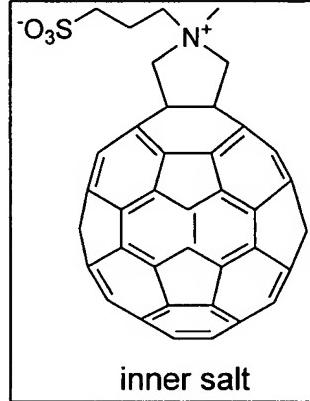
 <p>DF-1 Mini</p>	1212	12
 <p>C70 DF1 Mini</p>	1213	6
 <p>inner salt</p>	1214	92

Figure 11G

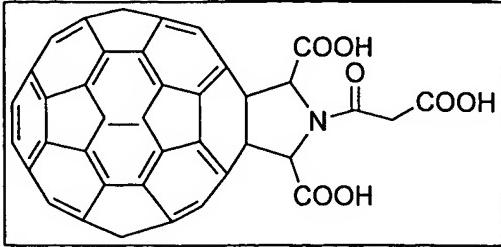
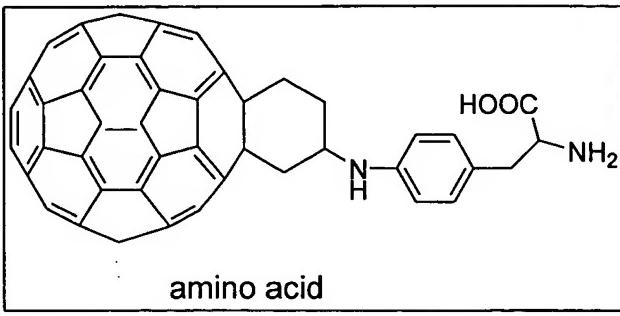
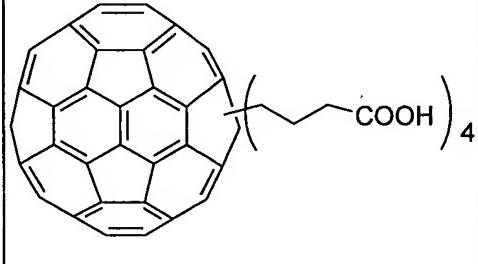
	1215	17
<u>Ho@C3</u>	1216	38
C ₆₀ (OH) ₁₂ (Comparative)	114	189

Figure 11H

 <p>amino acid</p>	1217	56
 <p>poly acid</p>	1218	43